UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

# NOTICE OF ALLOWANCE AND FEE(S) DUE

38284

7590

10/18/2004

RYDER IP LAW, PC DOUGLAS J. RYDER 3669 CONCORD ROAD DOYLESTOWN, PA 18901 EXAMINER
DUONG, FRANK

ART UNIT PAPER NUMBER
2666

DATE MAILED: 10/18/2004

1	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	09/836,752	04/17/2001	Bhunal Kanaiyalal Dharia	SPECT-01042US0 DEI	7382

TITLE OF INVENTION: FAST MACRODIVERSITY SWITCHING WITH INTERLEAVING IN WIRELESS NETWORKS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1370	\$300	\$1670	01/18/2005

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATEN PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHT THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPO PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM TH MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THE STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOV REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (O AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WIL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is n claiming SMALL ENTITY status, check box 5a on Part B - Fee Transmittal and pay the PUBLICATION FEE (if required) and 1 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) w your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together was applicable fee(s), to: Mail

Mail Stop ISS FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u>

(703) 746-4000

maintenance fee notification	ss.	in Block I, by (a)	E FEE and PUB lers and notificat specifying a nev	LICATION FEE (if requion of maintenance fees or correspondence address	uired). Blocks 1 through 5 s will be mailed to the current s; and/or (b) indicating a sep-	thould be completed wh correspondence address arate "FEE ADDRESS"
	E ADDRESS (Note: Use Block 1 for	any change of address)		Fee(s) Transmittal. T papers. Each addition	f mailing can only be used f his certificate cannot be used hal paper, such as an assignm	for any other accompany
	590 10/18/2004			have its own certifica	te of mailing or transmission.	_
RYDER IP LAW	•			Ce	ertificate of Mailing or Tran	smission
DOUGLAS J. RYI				States Postal Service	this Fee(s) Transmittal is bein with sufficient postage for fir iil Stop ISSUE FEE address PTO (703) 746-4000, on the	g deposited with the Un
3669 CONCORD I				addressed to the Ma	ail Stop ISSUE FEE address	above, or being facsim
DOYLESTOWN, I	PA 18901			duisinated to the OS	110 (703) 740-4000; Oil tile (	(Depositor's na
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APPLICATION NO.	FILING DATE	F	TRST NAMED INV	/ENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/836,752	04/17/2001	E	Bhupal Kanaiyala	l Dharia	SPECT-01042US0 DEL	7382
TITLE OF INVENTION: FA				NG IN WIRELESS NETV	WORKS	
APPLN, TYPE	SMALL ENTITY	ISSUE FE	E	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1370		\$300	\$1670	01/18/2005
EXAM	IINER	ART UNIT	Т	CLASS-SUBCLASS	]	
DUONG,	FRANK	2666		370-345000		
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).  Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  The endersy indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.  2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.						
3. ASSIGNEE NAME AND	RESIDENCE DATA TO B	E PRINTED ON TH	HE PATENT (pri	nt or type)		
PLEASE NOTE: Unless recordation as set forth in	an assignee is identified be 37 CFR 3.11. Completion of	low, no assignee do of this form is NOT	lata will appear of a substitute for f	on the patent. If an assig	nee is identified below, the c	locument has been filed
(A) NAME OF ASSIGNEE  (B) RESIDENCE: (CITY and STATE OR COUNTRY)						
Please check the appropriate assignee category or categories (will not be printed on the patent):						
4a. The following fee(s) are			Payment of Fee(			
Issue Fee				amount of the fee(s) is e		
	mall entity discount permitte	d) [	Payment by co	redit card. Form PTO-203	8 is attached.	
Advance Order - # of Copies The Director is hereby authorized by charge the required fee(s), or credit any overpayment Deposit Account Number (enclose an extra copy of this form).						
5. Change in Entity Status (from status indicated above)						
a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.						
The Director of the USPTO NOTE: The Issue Fee and Printerest as shown by the reco	is requested to apply the Issu ublication Fee (if required) words of the United States Pate	e Fee and Publication Fill not be accepted in the and Trademark C	on Fee (if any) or from anyone other office.	to re-apply any previous er than the applicant; a reg	sly paid issue fee to the applications and issue fee to the application of agent; or the state of the state o	ation identified above. he assignee or other part
Authorized Signature		·		Date		
Typed or printed name					n No	
This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to procure application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, submitting the completed application form to the USPTO. Time will your depending upon the individual costs.						

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to proc an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to comp this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 14 Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



## United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO. FILING DATE		ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/836,752 04/17/2001		04/17/2001	Bhupal Kanaiyalal Dharia	SPECT-01042US0 DEL	7382	
38284	38284 7590 10/18/2004			EXAM	EXAMINER DUONG, FRANK	
RYDER IP LAW, PC DOUGLAS J. RYDER 3669 CONCORD ROAD DOYLESTOWN, PA 18901				DUONG,		
				ART UNIT	PAPER NUMBER	
		•	2666			
				DATE MAILED: 10/18/2004	1	

### Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 854 day(s). If the issue fee is paid on the date that is three months after t mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a ha months) after the mailing date of this notice, the Patent Term Adjustment will be 854 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date th determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retriev (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



# United States Patent and Trademark Office

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APPLICATION NO. FILING DATE		ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
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38284 7590 10/18/2004		10/18/2004		EXAM	EXAMINER	
RYDER IP LAW, PC				DUONG,	DUONG, FRANK	
DOUGLAS J. RYDER 3669 CONCORD ROAD DOYLESTOWN, PA 18901				ART UNIT	PAPER NUMBER	
				2666		
				DATE MAILED: 10/18/2004	4	

### Notice of Fee Increase on October 1, 2004

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2004, then t amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" because some fees w increase effective October 1, 2004. See Revision of Patent Fees for Fiscal Year 2005; Final Rule, 69 Fed. Reg. 5260 52606 (May 10, 2004).

The current fee schedule is accessible from WEB site (http://www.uspto.gov/main/howtofees.htm).

If the fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due" but not the correct amount in vie of the fee increase, a "Notice of Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processi delays associated with mailing of a "Notice of Pay Balance of Issue Fee," if the response to the Notice of Allowan is to be filed on or after October 1, 2004 (or mailed with a certificate of mailing on or after October 1, 2004), t issue fee paid should be the fee that is required at the time the fee is paid. See Manual of Patent Examining Procedu (MPEP), Section 1306 (Eighth Edition, Rev. 2, May 2004). If the issue fee was previously paid, and the response the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue f now due, then the difference between the issue fee amount at the time the response is filed and the previously-pa issue fee should be paid. See MPEP Section 1308.01.

Effective October 1, 2004, 37 CFR 1.18 is amended by revising paragraphs (a) through (c) to read as set forth below

Section 1.18 Patent post allowance (including issue) fees.

(a) Issue fee for issuing each original or reissue patent, except a design or plant patent:

By a small entity (Sec. 1.27(a))...........\$685.00 By other than a small entity............\$1,370.00 (b) Issue fee for issuing a design patent: By a small entity (Sec. 1.27(a))..........\$245.00

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of t Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)					
	09/836,752	DHARIA ET AL.					
Notice of Allowability	Examiner	Art Unit					
	Frank Duong	2666					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address— All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included nerewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from Issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.  1. ☑ This communication is responsive to 04/17/01.  2. ☑ The allowed claim(s) is/are 1-61.  3. ☑ The drawings filed on 17 April 2001 are accepted by the Examiner.  4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some* c) ☐ None of the:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE *MAILING DATE* of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.							
6. CORRECTED DRAWINGS (as "replacement sheets") mus							
(a) ☐ including changes required by the Notice of Draftspers	•	948) attached					
<ol> <li>hereto or 2) ☐ to Paper No./Mail Date</li> <li>including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date</li> </ol>							
	Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).						
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.							
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. Motion of Informal C	Patent Application (PTO-152)					
Notice of Preferences Steed (175-532)     Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	`` '					
Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	Paper No./Mail Da						
4. Examiner's Comment Regarding-Requirement for Deposit	8. Examiner's Stateme	ent of Reasons for Allowance					
of Biological Material	9. 🔲 Other						

Application/Control Number: 09/836,752

Art Unit: 2666

#### **DETAILED ACTION**

1. This Office Action is a response to communications dated 04/17/01. Claims 1-61 are pending in the application.

### Allowable Subject Matter

- 2. Claims 1-61 are allowed.
- 3. The following is an examiner's statement of reasons for allowance: The prior art of record, considered individually or in combination, fails to fairly show or suggest the claimed invention of base claim 1, comprising, among other limitations, the novel and unobvious limitations of "control means for dynamically switching among selected ones of said transceiver stations to provide said particular dedicated channels for said particular mobile station, said switching causing ones of said component segments of said split segments to be unavailable for processing at a common location, split segment processing means for controlling said component segments to enable the processing of said split segments", structurally and functionally interconnected with other limitations in a manner as recited in base claims 1, 55 and 61. Dependent claims 2-54 and 56-60 further limit the base claims 1 and 55, respectively...

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 09/836,752

Art Unit: 2666

#### Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Lundsjo et al (USP 6,473,442).

McLaughlin et al (USP 6,131,034.

Worley, III et al (USP 5,805,576).

Howard et al (USP 5,715,516).

Wallerius et al (WO 98/54850).

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Frank Duong whose telephone number is (571) 272-3164. The examiner can normally be reached on 7:00AM-3:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema Rao can be reached on (571) 272-3174. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Application/Control Number: 09/836,752

Art Unit: 2666

Frank Duong Examiner Art Unit 2666

October 15, 2004